

CERTIFICATE OF ANALYSIS

prepared for: SEED2SYSTEM

11021 YELLOWSTONE RD LONGMONT, CO 80504

RMFC 500 Cooling Roll-On Gel 55213

Batch ID: 55213 **Test ID:** 4242719.003

13-Mar-2020 **Method**: TM14

Type: Topical

Reported:

Test: Potency

CANNABINOID PROFILE



CBD 0.87%

CBDa 0.00%

delta 9 THC 0.02%

THCa 0.00%

% = % (w/w) = Percent (Weight of Analyte / Weight of Product)

- Total Cannabinoids result reflects the absolute sum of all cannabinoids detected
- ** Total Potential THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during decarboxylation step.

Total THC = THC + (THCa *(0.877)) and Total CBD = CBD + (CBDa ND = None Detected (Defined by Dynamic Range of the method)

Compound	LOQ (mg)	Result (mg)	Result (mg/g)
Delta 9-Tetrahydrocannabinolic acid (THCA-	A) 10.92	ND	ND
Delta 9-Tetrahydrocannabinol (Delta 9THC)	5.45	13.50	0.2
Cannabidiolic acid (CBDA)	11.70	ND	ND
Cannabidiol (CBD)	6.54	492.50	8.7
Delta 8-Tetrahydrocannabinol (Delta 8THC)	5.97	ND	ND
Cannabinolic Acid (CBNA)	14.97	ND	ND
Cannabinol (CBN)	6.63	ND	ND
Cannabigerolic acid (CBGA)	9.54	ND	ND
Cannabigerol (CBG)	5.38	ND	ND
Tetrahydrocannabivarinic Acid (THCVA)	9.37	ND	ND
Tetrahydrocannabivarin (THCV)	4.87	ND	ND
Cannabidivarinic Acid (CBDVA)	10.87	ND	ND
Cannabidivarin (CBDV)	5.95	ND	ND
Cannabichromenic Acid (CBCA)	8.19	ND	ND
Cannabichromene (CBC)	9.86	35.60	0.6
Total Cannabinoids		541.60	9.55

NOTES:

Total Potential THC**

Total Potential CBD**

of Servings = 1, Sample Weight=56.7g

N/A

FINAL APPROVAL



Mara Miller 13-Mar-2020 2:42 PM

An 301

Greg Zimpfer 13-Mar-2020 3:43 PM

PREPARED BY / DATE

APPROVED BY / DATE

Testing results are based solely upon the sample submitted to Botanacor Laboratories, LLC, in the condition it was received. Botanacor Laboratories, LLC warrants that all analytical work is conducted professionally in accordance with all applicable standard laboratory practices using validated methods. Data was generated using an unbroken chain of comparison to NIST traceable Reference Standards and Certified Reference Materials. This report may not be reproduced, except in full, without the written approval of Botanacor Laboratories, LLC. ISO/IEC 17025:2005 Accredited A2LA Certificate Number 4329.02



13.50

492.50

0.24

8.69



Contaminant Analysis Report

500mg MCF Roll On - Cooling Sample Name:

Topical, Body Oil Sample Type: 2103AU0043.02944 Sample ID:

Batch ID: 55213

METRC Tag: 1A4000B00012FE9000001353 Seed2System

2000 Emerald Dr

Longmont, CO 80504 (954) 653-8070 Lic. #405R-00016.20

Pesticide Analysis Results

Analyte	LOQ	Limit	Amount	Status
	PPB	PPB	PPB	
Abamectin	40.0	70.0	ND	Pass
Azoxystrobin	10.0	20.0	ND	Pass
Bifenazate	20.0	20.0	ND	Pass
Etoxazole	10.0	10.0	ND	Pass
Imazalil	40.0	40.0	ND	Pass
Imidacloprid	10.0	20.0	ND	Pass
Malathion	40.0	50.0	ND	Pass
Myclobutanil	20.0	40.0	ND	Pass
Permethrin	10.0	40.0	ND	Pass
Spinosad	40.0	60.0	ND	Pass
Spiromesifen	30.0	30.0	ND	Pass
Spirotetramat	10.0	30.0	ND	Pass
Tebuconazole	10.0	20.0	ND	Pass



Notes and Interpretations

Analyzed via AAM-008 using Agilent 1260 HPLC and Agilent 6430 MS. Sample was analyzed as received. Deviations from SOP: None

Final Approval

Test Status

Results Approved By: Lucas Mason, M.S. Lab Director

Results Analyzed By: Trey Murschell, PhD Senior Chemist

Pesticide Analysis Results

Pass

Received: 03/05/2021

Tested: 03/09/2021

Reported: 03/12/2021

Definitions: LOQ = Limit of Quantitation, ND = Not Detected, NT = Not Tested, PPM = Parts per Million

This product has been tested by Aurum Labs using validated testing methodologies (unless specified in this report) and a Quality System as required by state law. Values reported related only to the product tested. Uncertainty information available upon request. Aurum Labs makes no claims as to the efficacy, safety or other risks associated with any detected or non detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full, with the written approval of Aurum Labs.



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Sample: 2103AU0043.02944

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Contaminant Analysis Report

Sample Name: 500mg MCF Roll On - Cooling

Sample Type: Topical, Body Oil Sample ID: 2103AU0043.02944

Batch ID: 55213

METRC Tag: 1A4000B00012FE9000001353

Seed2System

2000 Emerald Dr

Longmont, CO 80504 (954) 653-8070 Lic. #405R-00016.20

Microbial Test Results

Analyte	Limit	Amount	Status
•	CFU/g	CFU/g	
STEC	1	<1	Pass
Salmonella	1	<1	Pass
Yeast & Mold	10000	<100	Pass

Bacterial Test Results	Pass
Yeast & Mold Test Results	Pass
% Yeast	NR
% Mold	NR



Notes and Interpretations

Analyzed via AAM-003 & AAM-007. Sample was analyzed as received. Deviations from SOP: None

Final Approval

Test Status

Results Approved By: Lucas Mason, M.S. Lab Director Heater Coldin

Results Analyzed By: Hector Caldera Associate Microbiologist Microbial Test Results

Pass

Received: 03/05/2021

Tested: 03/09/2021

Reported: 03/12/2021

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Sample: 2103AU0043.02944





Contaminant Analysis Report

Sample Name: 500mg MCF Roll On - Cooling

Sample Type: Topical, Body Oil Sample ID: 2103AU0043.02944

Batch ID: 55213

METRC Tag: 1A4000B00012FE9000001353

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Residual Solvent Analysis Results

Analyte	LOQ	Limit	Amount	Status	Analyte	LOQ	Limit	Amount	Status
	PPM	PPM	PPM			PPM	PPM	PPM	
Acetone	160.0	1000.0	ND	Pass	Isopropanol	160.4	1000.0	ND	Pass
Benzene	1.0		1.4	Tested	Methanol	257.1	600.0	ND	Pass
Butanes	20.4	1000.0	ND	Pass	n-Pentane	19.2	1000.0	ND	Pass
Ethanol	161.0	1000.0	ND	Pass	Propane	20.4	1000.0	ND	Pass
Ethyl-Acetate	102.0	1000.0	ND	Pass	Toluene	8.8	180.0	ND	Pass
Heptanes	20.9	1000.0	ND	Pass	Xylenes	13.1	430.0	ND	Pass
Hexanes	10.0	60.0	ND	Pass		·	<u> </u>		



Notes and Interpretations

Analyzed via AAM-002 using Agilent 7697/7890 Headspace GC FID. Sample was analyzed as received. Deviations from SOP: None.

Final Approval

Test Status

Results Approved By: Lucas Mason, M.S. Lab Director Results Analyzed By: Trey Murschell, PhD Senior Chemist Residual Solvent Analysis Results

Pass

Received: 03/05/2021

Tested: 03/09/2021

Reported: 03/12/2021

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Sample: 2103AU0043.02944

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Heavy Metals Analysis Report

Sample Name: 500mg MCF Roll On - Cooling

Sample Type: Topical, Body Oil Sample ID: 2103AU0043.02944

Batch ID: 55213

METRC Tag: 1A4000B00012FE9000001353

Seed2System

2000 Emerald Dr

Longmont, CO 80504 (954) 653-8070 Lic. #405R-00016.20

Heavy Metals Profile					
Analyte	LOQ	Limit	Amount	Status	
-	PPM	PPM	PPM		
Arsenic	0.030	0.200	ND	Pass	
Cadmium	0.030	0.200	ND	Pass	
Lead	0.030	0.500	ND	Pass	
Mercury	0.030	0.100	ND	Pass	

Notes and Interpretations

Analyzed via AAM-010 using Agilent 7800 ICP-MS. Deviations from SOP: None. Limits based on State of Colorado requirements for inhaled or audited products: (Arsenic < 0.2 ppm, Cadmium < 0.2 ppm, Lead < 0.5 ppm, Mercury < 0.1 ppm)

Final Approval

Results Approved By: Lucas Mason, M.S. Lab Director Results Analyzed By: Trey Murschell, PhD Senior Chemist

Received: 03/05/2021

Tested: 03/09/2021

Reported: 03/12/2021

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Sample: 2103AU0043.02944





Terpene Analysis Report

Sample Name: 500mg MCF Roll On - Cooling

Topical, Body Oil Sample Type: 2103AU0043.02944 Sample ID:

Batch ID: 55213

METRC Tag: 1A4000B00012FE9000001353 Seed2System

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pene		- 10
nene	-4 6 0 1	112

Analyte	LOQ	Amount	Amount	
	mg/g	mg/g	%	
Eucalyptol	0.12	9.17	0.917	
α-Pinene	0.12	5.29	0.529	
δ-Limonene	0.12	4.98	0.498	
Camphene	0.12	1.10	0.110	
p-Cymene	0.12	0.99	0.099	
y-Terpinene	0.12	0.79	0.079	
Terpinolene	0.12	0.63	0.063	
δ-3-Carene	0.12	0.30	0.030	
β-Myrcene	0.12	0.25	0.025	
β-Pinene	0.12	0.21	0.021	
Caryophyllene Oxide	0.12	0.17	0.017	
α-Terpinene	0.12	0.16	0.016	
Linalool	0.12	0.16	0.016	
α-Humulene	0.12	ND	ND	
β-Caryophyllene	0.12	<loq< th=""><th><loq< th=""><th></th></loq<></th></loq<>	<loq< th=""><th></th></loq<>	
cis-Nerolidol	0.05	ND	ND	
Geraniol	0.12	<loq< th=""><th><loq< th=""><th></th></loq<></th></loq<>	<loq< th=""><th></th></loq<>	
Ocimene	0.12	<loq< th=""><th><loq< th=""><th></th></loq<></th></loq<>	<loq< th=""><th></th></loq<>	
(-)-α-Bisabolol	0.12	NR	NR	
(-)-Guaiol	0.12	ND	ND	
(-)-Isopulegol	0.12	<loq< th=""><th><loq< th=""><th></th></loq<></th></loq<>	<loq< th=""><th></th></loq<>	
trans-Nerolidol	0.07	ND	ND	

Notes and Interpretations

Analyzed via AAM-006 using Agilent 7697/7890 Headspace GC FID. Sample was analyzed as received. Deviations from SOP: None.











The aroma profile shown reflect the highest measured concentration, from top to bottom, respectively.

Final Approval

Results Approved By: Lucas Mason, M.S. Lab Director

Results Analyzed By: Trey Murschell, PhD Senior Chemist

Received: 03/05/2021

Tested: 03/09/2021

Reported: 03/12/2021

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